

RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT

Application No. 10/718,751

Attorney Docket No. 062829

AMENDMENTS TO THE CLAIMS

Listing of claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently amended) A flexible hose comprising: a metal bellows tube having a first rubber layer on the outer circumference thereof; and an exterior layer formed on the outer circumference of the first rubber layer; wherein the metal bellows tube has a corrugated structure with a plurality of spaced apart rings having peaks and a plurality of channels disposed between the rings forming valleys below the peaks and the plurality of channels disposed between the rings vary in width in a radial direction wherein the width of each channel between peaks is 0.1 to 1.0mm and narrower than the width of each valley below the peaks, and wherein the first rubber layer is of a rubber composition including at least a rubber of an acryl group and/or a rubber of an ethylene-propylene-diene group and having a Mooney viscosity (MV) of between 15 and 45 at 100°C and ~~with the rubber layer being~~ flowable at low temperature such that each channel is filled with rubber extending throughout each valley.

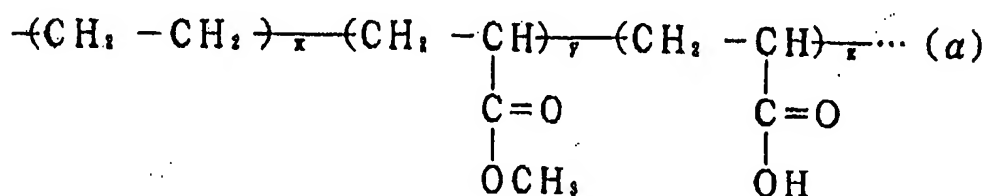
2. (Cancelled)

3. (Currently amended) A flexible hose of claim [[2]] 1, further comprising a reinforcing

layer formed between said first intermediate rubber layer and said exterior layer.

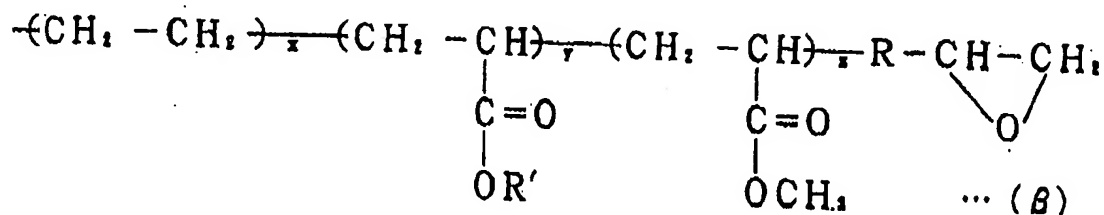
4. (Currently amended) A flexible hose of claim [[2]] 1, wherein said first intermediate rubber layer further comprises a resorcinol group.

5. (Original) A flexible hose of claim 4 wherein the first rubber layer comprises an acryl group unit formula:



wherein, $x = 29.9 \sim 74.9$, $y = 25 \sim 70$, $z = 0.1 \sim 18$ and a carboxyl group is a crosslinking group.

6. (Original) A flexible hose of claim 4, wherein the first rubber layer comprises an acryl group unit of the formula:



wherein, $x = 29.9 \sim 74.9$, $y = 25 \sim 70$, $z = 0.1 \sim 10$, and further wherein R is hydrogen or ethyl group and R' is alkyl group with carbon number 1~18 and an end epoxy group is a crosslinking group.

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7. (Original) A flexible hose of claim 5 wherein $x = 34.7 \sim 69.7$ and $y = 30 \sim 65$.

8. (New) A method of producing a flexible hose of claim 1 comprises the steps of preparing a metal bellows tube having a corrugated structure with a plurality of spaced apart rings having peaks and a plurality of channels disposed between the rings forming valleys below the peaks and the plurality of channels disposed between the rings vary in width in a radial direction wherein the width of each channel between peaks is 0.1 to 1.0mm and narrower than the width of each valley below the peaks, and heating a rubber composition, including at least a rubber of an acryl group and a rubber of an ethylene-propylene-diene group and having a Mooney viscosity (MV) of between 15 and 45 at 100°C and being flowable at low temperature, at 100°C, so as to have the MV of between 15 and 45 and forming a first rubber layer by extrusion molding, press molding or injection molding the rubber composition on the outer peripheral surface of the metal bellows tube.